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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

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Sheet

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Of

8

COMPLETE IF KNOWN

Application Number	10/026,044
Filing Date	December 27, 2001
First Name and Inventor	Ralph Johnson
Art Unit	2828
Examiner Name	Tuan M Nguyen
Attorney Docket Number	V637-02671 US

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
TN		US 4445218		04-24-1984	Coldren	
		US 4608697		08-26-1986	Coldren	
		US 4622672		11-11-1986	Coldren et al.	
		US 4829347		05-09-1989	Cheng et al.	
		US 4873696		10-10-1989	Coldren et al.	
		US 4896325		01-23-1990	Coldren	
		US 5045499		09-03-1991	Nishizawa et al.	
		US 5082799	A	01-21-1992	Holmstrom et al.	
		US 5245622	A	09-14-1993	Jewell et al.	
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		US 5293392	A	03-08-1994	Shieh et al.	
		US 5343487	A	08-30-1994	Scott et al.	
		US 5358880	A	10-25-1994	Lebby et al.	
		US 5365540	A	11-15-1994	Yamanaka	
		US 5392307	A	02-21-1995	Sugiyama et al.	
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		US 5491710	A	02-13-1996	Lo	
		US 5513204	A	04-30-1996	Jayaraman	
		US 5568504	A	10-22-1996	Kock et al.	
		US 5588995	A	12-31-1996	Sheldon	
		US 5631472	A	05-20-1997	Cunningham et al.	
		US 5693180	A	12-02-1997	Furukawa et al.	
		US 5719891	A	02-17-1998	Jewell	
TN		US 5719894	A	02-17-1998	Jewell et al.	

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Signature

Tuan M Nguyen

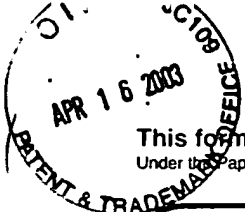
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Sheet 2 Of 8

COMPLETE IF KNOWN

Applicant Number	10/026,044
Filing Date	December 27, 2001
First Named Inventor	Ralph Johnson
Group Art Unit	2828
Examiner Name	Tuan M Nguyen
Attorney Docket Number	V637-02671 US

TN	US	5719895	A	02-17-1998	Jewell et al.	
	US	5729567	A	03-17-1998	Nakagawa	
	US	5732103	A	03-24-1998	Ramdani et al.	
	US	5747366	A	05-05-1998	Brillouet et al.	
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	US	5818862	A	10-06-1998	Salet	
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	US	6021147	A	02-01-2000	Jiang et al.	
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Tuan M Nguyen

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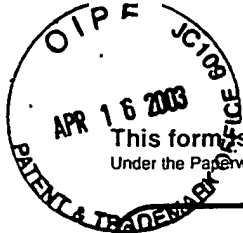
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Sheet 3 Of 8

COMPLETE IF KNOWN

Application Number	10/026,044
Filing Date	December 27, 2001
First Named Inventor	Ralph Johnson
Group Art Unit	2828
Examiner Name	Tuan M Nguyen
Attorney Docket Number	V637-02671 US

TN	US	6121068	A	09-19-2000	Ramdani et al.	
	US	6127200	A	10-03-2000	Ohiso et al.	
	US	6148016	A	11-14-2000	Hegblom et al.	
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	US	2002/ 0131462	A1	09-19-2002	Line et al.	
TN	US	2003/ 0053510	A1	03-20-2003	Yuen et al.	

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Tuan M Nguyen

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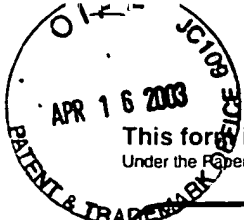
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First Named Inventor	Ralph Johnson
Group Art Unit	2828
Examiner Name	Tuan M Nguyen
Attorney Docket Number	V637-02671 US

FOREIGN PATENT DOCUMENTS

Examiner Initials [*]	Cite No ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ²	Number ⁴	Kind Code ⁵ (if known)				
TN		EP	0 740 377	A1	10-30-1996	Hewlett-Packard Company		
		EP	0 740 377	B	10-30-1996	Hewlett-Packard Company		
		EP	0 765 014	A1	03-26-1997	France Telecom		
		EP	0 765 014	B1	07-28-1999	France Telecom		
		EP	0 822 630	A1	02-04-1998	Hewlett-Packard Company		
		EP	0 874 428	A2	10-28-1998	Motorola, Inc.		
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		EP	1 294 063	A1	03-19-2003	Avalong Photonics AG		
		JP	57026492	A	02-12-1982	NEC Corp.		
		WO	98/007218	A1	02-19-1998	W.L. Gore & Associates, Inc.		
		WO	00/033433	A2	06-08-2000	Arizona Board of Regents		
		WO	00/033433	A3	06-08-2000	Arizona Board of Regents		
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		WO	00/052789	A2	02-29-2000	The Regents of the University of California		
		WO	00/052789	A3	02-29-2000	The Regents of the University of California		
		WO	00/065700	A2	11-02-2000	Gore Enterprise Holdings, Inc.		
		WO	00/065700	A3	11-02-2000	Gore Enterprise Holdings, Inc.		
		WO	01/016642	A2	03-08-2001	Agility Communications		
		WO	01/016642	A3	03-08-2001	Agility Communications		
		WO	01/017076	A2	03-08-2001	The Regents of the University of California		
TN		WO	01/017076	A3	03-08-2001	The Regents of the University of California		

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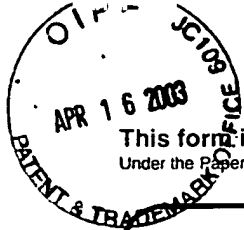
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Group Art Unit	2828
Examiner Name	Tuan M Nguyen
Attorney Docket Number	V637-02671 US

TN	WO	01/018919	A1	03-15-2001	The Regents of the University of California	
	WO	01/024328	A2	04-05-2001	Agility Communications	
	WO	01/024328	A3	04-05-2001	Agility Communications	
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	WO	01/033677	A3	05-10-2001	Arizona Board of Regents	
	WO	01/084682	A2	11-08-2001	Agility Communications, Inc.	
	WO	01/093387	A2	12-06-2001	Sandia Corporation	
	WO	01/093387	A3	12-06-2001	Sandia Corporation	
	WO	01/095444	A2	12-13-2001	Agility Communications, Inc.	
	WO	01/098756	A2	12-27-2001	The Regents of the University of California	
	WO	02/003515	A2	01-10-2002	Agility Communications, Inc.	
	WO	02/017445	A1	02-28-2002	The Regents of the University of California	
TN	WO	02/084829	A1	10-24-2002	Cielo Communications, Inc.	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
TN		ALMUNEAU, G., et al., "Accurate control of Sb composition in AlGaAsSb alloys on InP substrates by molecular beam epitaxy", article, Journal of Crystal Growth, Vol 208, 05-06-1999, pgs 113-6.	
		ALMUNEAU, G., et al., "Improved electrical and thermal properties of InP-AlGaAsSb Bragg mirrors for long-wavelength vertical-cavity lasers", article, IEEE Photonics Technology Letters, Vol. 12, No 10, Oct 2000, pgs 1322-4.	
		ALMUNEAU, G., et al., "Molecular beam epitaxial growth of monolithic 1.55 μ m vertical cavity surface emitting lasers with AlGaAsSb/AlAsSb Bragg mirrors", article, Journal of Vacuum Science Technology, Vol 8, No 3, May/Jun 2000, pgs 1601-4.	
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		BLUM, O., et al., "Highly reflective, long wavelength AlAsSb/GaAsSb distributed Bragg reflector grown by molecular beam epitaxy on InP substrates", article, Applied Physics Letters, Vol. 66, No 3, 01-16-1995, pgs 329-31.	
TN		BOUCART, J., et al., "1mW CW-RT monolithic VCSEL at 1.55 μ m", article, IEEE Photonic Technology Letters, Vol 11, No 6, Jun 1999, pgs 629-31	

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PTO/SB/08A (04-03)

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TN		CAMPBELL, J., et al., "Quantum dot resonant cavity photodiode with operation near 1.3 μ m wavelength", article, Electronics Letters, Vol 33, No 15, 07-17-1997, pgs 1337-9.	
		CHANG, C., et al., "Parasitics and design considerations on oxide-implant VCSELs", article, IEEE Photonics Technology Letters, Vol 13, No 12, Dec 2001, pgs 1274-6.	
		CHOQUETTE, K., et al., "Room temperature continuous wave InGaAsN quantum well vertical-cavity lasers emitting at 1.3 μ m", article, Electronics Letters, Vol 36, No. 16, 08-03-2000, pgs 1388-90.	
		DOWD, P., et al., "Long wavelength (1.3 and 1.5 μ m) photoluminescence from InGaAs/GaPAsSb quantum wells grown on GaAs", article, Applied Physics Letters, Vol 75, No 9, 08-30-1999, pgs 1267-9.	
		DUDLEY, J., et al., "Water fused long wavelength vertical cavity lasers", conference proceedings, LEOS '93 Conference Proceedings. IEEE Lasers and Electro-Optics Society 1993 Annual Meeting, Nov 15/8, 1993, pgs 560-1.	
		GOURLEY, F., et al., "Epitaxial semiconductor optical interference devices", invited paper, SPIE, Vol 792, 1987, pgs 178-189.	
		GUDEN, M., et al., "Material parameters of quaternary III-V semiconductors for multiplayer mirrors at 1.55 μ m wavelength", article, Modeling Simulation Material Science Engineering, Vol 4 1966, pgs 349-57.	
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		GUY, D., et al., "Theory of an electro-optic modulator based on quantum wells in a semiconductor étalon", conference paper, Quantum Well and Superlattice Physics, Mar 23/4, 1987, pgs 189-96.	
		HALL, E., et al., "Electrically-pumped, single-epitaxial VCSELs at 1.55 μ m with Sb-based mirrors", article, Electronics Letters, Vol 35, No 16, 08-05-1999, pgs 1-2.	
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		HALL, E., et al., "Selectively etched undercut apertures in AlAsSb-based VCSELs", article, IEEE Photonics Technology Letters, Vol 13, No 2, Feb 2001, pgs 97-9.	
		HEGBLOM, E., et al., "Small efficient vertical cavity lasers with tapered oxide apertures", article, Electronics Letters, Vol 34, No 9, 04-30-1998, pgs 895-6.	
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		HONG, Y., et al., "Improving Ga(In)Nas properties by migration-enhanced epitaxy and superlattices", 43 rd 2001 Electronic Material Conference, Session G, Paper G10, 06-27-2001.	
		HONG, Y., et al., "Growth of GaInNAs quaternaries using a digital alloy technique", conference paper, Journal of Vacuum Science and Technology B: Microelectronics and Nanometer Structures, Oct 01/3, 2001, pgs 1163-6.	
		HUFFAKER, D., et al., "1.15 μ m wavelength oxide-confined quantum-dot vertical-cavity surface-emitting laser", article, IEEE Photonics Technology Letters, Vol 10, No 2, Feb 1998, pgs 185-7.	
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Application Number	10/026,044
Filing Date	December 27, 2001
First Named Inventor	Ralph Johnson
Group Art Unit	2828
Examiner Name	Tuan M Nguyen
Attorney Docket Number	V637-02671 US

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